



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 6, 2016

Kristin Hood  
Regulatory Affairs Specialist  
Central Garden & Pet Company  
1501 East Woodfield Road, Suite 200 W  
Schaumburg, IL 60173

Subject: Notification per PRN 98-10 – Addition of ABN & Marketing Claims  
Product Name: Prentox Pyronyl Oil Concentrate #525  
EPA Registration Number: 89459-24  
Application Date: 12/30/2015  
Decision Number: 512914

Dear Ms. Hood:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

The alternate brand name “*Pyronyl 525 Oil Concentrate*” has been added to the product record.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, you may contact Angela Hollis at 703-347-0216 or via email at [hollis.angela@epa.gov](mailto:hollis.angela@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'J. Urbanski Saunders', followed by the word 'for' written in a cursive style.

Jennifer Urbanski Saunders, Ph.D.  
Product Manager 4  
Invertebrate and Vertebrate Branch 1  
Registration Division (7505P)  
Office of Pesticide Programs



# PYRONYL™ OIL CONCENTRATE #525

Alternate brand name: Pyronyl™ 525 Oil Concentrate

Kills: Ants, flies, fruit flies, gnats, small mites, lice, cockroaches, mosquitoes, wasps and other listed insects

For use in: Cattle barns, horse barns, poultry houses, swine houses, stables and animal quarters

For use as: Outdoor and wide area mosquito abatement

On Animal use: Beef and dairy cattle

### ACTIVE INGREDIENTS:

Pyrethrins.....	5.00%
Piperonyl Butoxide*	25.00%
<b>OTHER INGREDIENTS**:</b> .....	<b>70.00%</b>
TOTAL	100.00%

\* (butylcarbityl)(6-propylpiperonyl) ether and related compounds.

\*\*Contains Petroleum Distillates

This product contains 0.367 pounds of pyrethrins and 1.83 pounds of piperonyl butoxide technical per gallon.

## KEEP OUT OF REACH OF CHILDREN CAUTION

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

[EFFECTIVE IN THE CONTROL OF INSECTS LISTED ON THIS LABEL IF THE APPLICATOR FOLLOWS THE DIRECTIONS FOR USE AS SET FORTH ON THIS LABEL.]

EPA Reg. No. ~~655-471~~89459-24

EPA Est. No.

NET CONTENTS

LOT NO.

### NOTIFICATION

89459-24

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

02/06/2016

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Immediately call a Poison Control Center or physician.</li><li>• Do not induce vomiting unless told to do so by the Poison Control Center or physician.</li><li>• Do not give any liquid to the person.</li><li>• Do not give anything by mouth to an unconscious or convulsing person.</li></ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact 1-800-222-1222/248-7763 for emergency medical treatment information. You may also contact the National Pesticide Telecommunication Network at 1-800-858-7378 for information including health concerns, medical emergencies or pesticide incidents.	
<b>NOTE TO PHYSICIAN:</b> Contains petroleum distillate – vomiting may cause aspiration pneumonia.	

**Personal Protective Equipment (PPE):**

Mixers, loaders, applicators, and other handlers must wear the following:

- long-sleeve shirt,
- long pants,
- shoes and socks.

In addition to the above PPE, applicators using a high pressure hand wand in an enclosed area must wear at least a NIOSH-approved respirator with:

- a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or
- any R, P, or HE filter.

In addition to the above PPE, applicators using hand held foggers in an enclosed area must wear a half-face, full-face, or hood-style NIOSH-approved respirator with:

- a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or
- a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or
- a cartridge or canister with any R, P, or HE filter.

See Engineering Controls for additional requirements.

**User Safety Requirements:**

Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with the product’s concentrate. Do not reuse them.

**User Safety Recommendations:**

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

**Engineering Controls:**

Pilots must use an enclosed cockpit that meets the requirements listed on the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)]. Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

**ENVIRONMENTAL HAZARDS**

**For Terrestrial Applications:** This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This product has a potential for runoff for several weeks after application [for several weeks after application](#). Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

Except as specified in the directions for use, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

**For Wide Area Mosquito Adulticide Applications:** This pesticide is toxic to aquatic organisms, including fish and invertebrates. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates. When applying as a wide area mosquito adulticide, before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply when bees are visiting the treatment area, except when applications are made to prevent or control a threat to public and/or animal health determined by a state, tribal, or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

When applying as a wide area mosquito adulticide, do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

#### GENERAL PRECAUTIONS & USE RESTRICTIONS:

- Entry Restrictions:  
Except when applying to beef cattle, dairy cattle and horses and applying as a wide area mosquito adulticide, do not enter or allow others to enter treated area until sprays have dried and vapors, mists and aerosols have dispersed and the treated area has been thoroughly ventilated.  
Except when applying to beef cattle, dairy cattle and horses and applying as a wide area mosquito adulticide, do not apply this product in a way that will contact workers or other persons either directly or through drift.  
Except when applying to beef cattle, dairy cattle and horses and applying as a wide area mosquito adulticide, only protected handlers may be in the area during application.
- Remove or cover exposed food and drinking water before application.
- Remove or cover dishes, utensils, food processing equipment and food preparation surfaces or wash them before use.
- Remove pets, birds and cover fish aquariums before spraying.
- Do not make space spray applications when food handling and processing facilities are in operation. Prior to space spray applications, cover or remove food. Prior to space spray applications, cover food processing surfaces or clean after treatment and before use.
- Do not remain in treated area. Exit area immediately and remain outside the treated area until aerosols, vapors, and/or mists have dispersed.
- For direct application to non-domestic animals: Do not apply more than 1 time per day.
- When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.
- Do not apply directly into sewers or drains or to any area like a gutter where drainage to storm sewers, water bodies or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.
- Not for use in outdoor residential misting systems.
- Do not make applications during rain.
- Do not wet plants to point of runoff or drip.
- Do not water the treated area to the point of runoff.
- Do not use in aircraft cabins.

**INDOOR USE AS A SPACE SPRAY UNDILUTED:** In non-residential areas only, close windows and doors and shut off ventilating systems. Use a fogger or vaporizer adjusted to deliver an aerosol spray (no droplets over 50 microns in diameter and 80% less than 30 microns). Apply at a rate of ½ fluid ounce per 1,000 cubic feet of space. Direct the spray toward the ceiling and upper corners of the area behind obstructions. Keep the area closed for at least 15 minutes.

**FOR COCKROACHES ONLY:** Apply at a rate of 1 fluid ounce per 1,000 cubic feet of space. Open all closets, cabinets, drawers, and other potential harborage. Direct spray toward ceiling and upper corners of the area and into, under and behind obstructions, cabinets, appliances and furnishings if the equipment and constructions of the treatment so allow. Keep area closed for at least 1 hour before ventilation.

This method of application will kill COCKROACHES and exposed, accessible stages of FLIES, (including FRUIT FLIES), MOSQUITOES, SMALL MITES, CHEESE SKIPPERS, BOXELDER BUGS, EARWIGS, ANTS and the following common stored product pests: GRANARY WEEVILS, RICE BEETLES, SPIDER BEETLES, MOTHS, MEDITERRANEAN FLOUR MOTHS, INDIAN MEAL MOTHS, TOBACCO MOTHS, YELLOW MEALWORMS, DARK MEALWORMS, GRAIN MITES, CADELLES and RED FLOUR BEETLES.

**DRIED FRUIT PRODUCTS** in storage or being processed, to kill CONFUSED FLOUR BEETLES, DRIED FRUIT BEETLES, INDIAN MEAL MOTHS, AND SAW-TOOTHED GRAIN BEETLES: remove and destroy infested products. As noted above, disperse this product as a fine mist in the air above the trays and shelves. Use ½ fluid ounce per 1,000 cubic feet of space. Repeat application at this dosage in any given month. Leave the room closed for one hour.

**STORED FOOD:** (Stored in multi-wall bags or cloth bags) in warehouses, storage rooms, flour mills, grain elevators, granaries to kill ANGOUMOIS GRAIN MOTHS, CADELLES, CONFUSED FLOUR BEETLES, INDIAN MEAL MOTHS, MEDITERRANEAN FLOUR MOTHS, RICE WEEVILS, SAW-TOOTHED GRAIN BEETLES, YELLOW MEALWORMS, CHEESE MITES, CHEESE SKIPPERS, CIGARETTE BEETLES, GRAIN MITES, GRANARY WEEVILS, DARK MEALWORMS, RED FLOUR BEETLES: remove and destroy infested products. As noted above, disperse the product first by directing spray into corners, under pallets, and around stacks of package foods hitting as many insects as possible and the treat as a space spray. Infested stored product should be fumigated or treated by other effective methods using an approved product intended for this purpose. Use a dosage of ½ fluid ounce per 1,000 cubic feet of space. This application will kill accessible, exposed stages of those stored product pests listed above.

**INDOOR USE AS A SPACE SPRAY DILUTED:** for use in conventional mechanical fogging equipment to kill FLIES, FRUIT FLIES, MOSQUITOES, SMALL FLYING MOTHS AND GNATS. Close room and shut off all air conditioning or ventilating system equipment. Dilute 1 part concentrate plus 49 parts oil (refined kerosene) and mix well. Apply at the rate of 1 to 2 fluid ounces per 1,000 cubic feet filling the room with mist. Keep area closed for at least 15 minutes.

**SURFACE SPRAY:** To insure maximum kill of crawling insects (ANTS, BOXELDER BUGS, CLOVER MITES, DRUGSTORE BEETLES, EARWIGS, LICE, SPIDER BEETLES), dilute 1 part concentrate plus 49 parts oil (refined kerosene) and mix well and apply as a coarse wetting spray using approximately 1 gallon of spray mixture to 750 square feet of surface. Spray walls, floors and other surfaces of bins and storage and handling areas thoroughly, being especially careful to treat cracks, crevices and similar hiding places. Treat unloading, handling and processing areas and inside conveying processing and handling equipment. Spray thoroughly around the base of heavy machinery and equipment. Spray insects directly when possible.

For transit protection, clean and spray truck beds, boxcars, and ship's holds before loading. Dilute 1 part concentrate plus 49 parts oil (refined kerosene) and mix well and apply as a coarse wetting spray using approximately 1 gallon of spray mixture to 750 square feet of surface. Thoroughly treat walls and floors and spray each layer of cartons or containers lightly as stacked.

To kill INDIAN MEAL MOTHS, and ANGOUMOIS GRAIN MOTHS in stored grain, dilute 1 part concentrate plus 49 parts oil (refined kerosene), mix well and apply to the surface of binned grain at a rate of 1 gallon per 1,000 square feet. Apply at monthly intervals with the first appearance of moths and continuing until early fall. In case of severe infestation, break up webbing with rake before spraying and make a second application in two weeks.

To kill MOSQUITOES, GNATS, WASPS AND SKIPPERS: treat walls ceilings, moldings, screens, door and window frames, beams, light cords and similar resting places.

**CONTACT AND SURFACE SPRAY:** To kill cockroaches, dilute 2.5 fluid ounces to make one gallon of finished solution in oil. Use a good sprayer adjusted to deliver a coarse, wet spray applying 1 gallon of solution per 1,000 sq. ft. Direct the spray into hiding places, containers of stored foods, around bases of machinery, behind shelves and drawers. Spray cockroaches directly whenever possible.

#### **INDOOR METERED RELEASE DEVICE:**

Not for use in residential areas.

Do not use in nurseries or rooms where infants, ill or age persons are confined.

Do not place metering device directly over or within 8 feet of exposed food, dishes, utensils, food processing equipment and food handling or preparation.

Do not install within 3 feet of air vents.

Carefully follow directions for the dispenser unit when installing the dispenser and replacing cans or conducting maintenance.

The maximum application rate for metered release devices is 0.00046 lb pyrethrins per 1,000 cubic feet. Dilute 2.5 fluid ounces to make one gallon of finished solution and apply no more than 7.9 fluid oz per 1,000 cu. ft.

**ANIMAL QUARTER USE:** (Cattle barns, horse barns, poultry houses, swine houses, zoos): as a space spray diluted for use in conventional mechanical fogging equipment to kill FLIES, MOSQUITOES, SMALL FLYING MOTHS AND GNATS, dilute 1 part concentrate plus 49 parts oil (refined kerosene) and mix well. Apply at the rate of 2 fluid ounces per 1,000 cubic feet of space above the animals. Direct spray towards the upper portions of the enclosure filling the room with moisture. Keep area closed for at least 15 minutes.

#### **INDOOR MISTING SYSTEMS USED IN COMMERCIAL BARN, STABLES AND ANIMAL QUARTERS:**

To kill listed flying insects dilute 2.5 fluid ounces of Prentox Pyronyl Oil Concentrate #525 per gallon of oil (125 fluid oz of concentrate in 50 gallons of oil). Do not apply when food, feed and/or water is present. When using this product, installers and service technicians must comply with the license, certification or registration requirements of the state(s), tribe(s) or local authority(ies) where they are installed. When applying via a remote activation device, do not apply when people and pets are present. If possible, when applying via automatic timer, set the timing for application when people and pets are unlikely to be present. Direct nozzles to spray towards the target area and away from areas where people are typically present. Do not use in an evaporative cooling system. Do not use in misters located within 3 feet of air vents, air conditioner units or windows.

If used in a system with a reservoir tank for the end use dilution, the system reservoir tank must be locked. Securely attach the end use pesticide label and a dilution statement to the system reservoir tank in a weather protected area or plastic sleeve. The dilution statement must be phrased as follows: this container holds \_\_\_\_ parts Prentox Pyronyl Oil Concentrate #525 to \_\_\_\_ parts oil.

If used in a direct injection system, the pesticide container must be locked. Securely attach the end use label to the pesticide container in a weather protected area or plastic sleeve.

This product must only be used in systems that have been calibrated to apply no more than the maximum application rate of 0.000476 lbs pyrethrins and 0.008 lbs piperonyl butoxide per 1,000 cubic feet per day. This is equivalent to 8.2 fluid ounces of diluted product per 1,000 cubic feet per day.

**FOR USE IN FEDERALLY INSPECTED MEAT AND POULTRY PLANTS:** to kill exposed or accessible stages of COCKROACHES, SILVERFISH, WATER BUGS, EARWIGS, ANTS, SPIDERS, FLIES, FRUIT FLIES, MOSQUITOES, SMALL FLYING MOTHS and GNATS, dilute one part concentrate with 5 parts base oil (refined kerosene) and use with a ULV spraying device at the rate of one fluid ounce per 1,000 cubic feet of room space. Apply the spray into all cracks and crevices in woodwork, walls, floors, underneath sinks, behind pipes and in all places where these insects shelter. Contact as many insects as possible.

**OUTDOOR APPLICATIONS, UNDILUTED:** For use by federal, state, tribal, or local government officials responsible for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision.

To kill ADULT MOSQUITOES, GNATS AND SMALL FLYING MOTHS, this concentrate is formulated to be diluted with a suitable oil diluent, such as, but not limited to, light mineral oil, deodorized kerosene or petroleum distillate, for use in cold fog aerosol generators.

This concentrate may be diluted or used as supplied for mosquito control programs involving residential, industrial, recreational and agricultural areas, swamps, marshes, overgrown wastes areas, roadsides and pastures where adult mosquitoes occur.

This product can be used over the following growing crops:

#### **ROOT AND TUBER VEGETABLES**

Arracacha, arrowroot, purple arrowroot, Japanese artichoke, Jerusalem artichoke, beet, sugar beet, edible burdock, carrot, cassava (bitter or sweet), celeriac, chervil (turnip rooted), chicory, dasheen, (taro), ginger, ginseng, horseradish, leren, parsley (turnip rooted), parsnip, potato, radish, Japanese radish (daikon), rutabaga, salsify, black salsify, Spanish salsify, sweet potato, tanier (cocoyam), turmeric, turnip, true yam, bean yam.

#### **LEAVES OF ROOT AND TUBER VEGETABLES**

Beet, sugar beet, edible burdock, carrot, cassava (bitter or sweet), celeriac, chervil (turnip rooted), chicory, dasheen (taro), parsnip, radish, Japanese radish (daikon), rutabaga, black salsify, sweet potato, tanier (cocoyam), turnip, true yam.

#### **BULB VEGETABLES (*Allium* spp.)**

Garlic, great-headed garlic, leek, onion (dry bulb or green), spring onion (scallion), Welsh onion, shallot.

#### **LEAFY VEGETABLES**

Amaranth (leafy amaranth, Chinese spinach, tampala), arugula (rocket), celery, celtuce, chervil, corn salad, chrysanthemum (edible leaved), chrysanthemum (garland), cress (garden), cress (upland, yellow rocket, winter cress), dandelion, dock (sorrel), endive, escarole, fennel (Florence), lettuce (head and leaf), orach, parsley, purslane (garden and winter), rhubarb, romaine, spinach, fine spinach (Malabar, Ceylon), spinach (New Zealand), Swiss chard.

#### **BRASSICA (COLE) LEAFY VEGETABLES**

Broccoli, broccoflower, cavalo-broccolo, Chinese broccoli (gailan), broccoli raab (rapini), Brussels sprouts, cabbage, Chinese cabbage (bok choy), Chinese cabbage (napa), Chinese mustard cabbage (gai choy), cauliflower, collards, kale, kohlrabi, mizuna, mustard greens, mustard spinach, rape greens.

#### **LEGUME VEGETABLES (SUCCULENT OR DRIED)**

Adzuki beans, asparagus beans, black-eyed peas, broad beans (fava beans), catjang, chick peas (garbanzo beans), Chinese longbeans, cowpeas, crowder peas, field beans, guar, jackbeans, sword beans, kidney beans, lablab beans (hyacinth beans), lima beans, lentils, moth beans, mung beans, navy beans, peas (dwarf, edible, pod, English, garden green, field, snowpeas, sugar snap peas), pigeon peas, pinto beans, rice beans, runner beans, snap peas, southern peas, soybeans, grain lupin, sweet lupin, white lupin, pole beans, tepary beans, urd beans, wax beans, yardlong beans.

#### **LEGUME VEGETABLE FOLIAGE**

Plant part of any legume vegetables included in the legume vegetable group that will be used as animal feed, including any variety of beans and field peas.

#### **FRUITING VEGETABLES**

Eggplant, ground cherry, pepino, peppers (bell, chili, cooking, pimento, sweet peppers), tomatillo, tomato.

#### **CUCURBIT VEGETABLES**

Balsam pear (bitter melon), Chinese wax gourd (Chinese preserving melon), citron melon, cucumber, gherkins, edible gourd, melons (hybrids, ananas, canary, cantaloupe, casaba, charentais, Crenshaw, galia, honeydew, honeyballs, mangomelon, muskmelon, Persian melon, piel de sapo), pumpkin, squash (summer and winter), western shipper melon, watermelon (including hybrids, seeded and unseeded.)

#### **CITRUS FRUITS**

Calamondin, citrus citron, citrus hybrids, grapefruit, kumquat, lemon, lime, mandarin, tangerine, orange (sweet and sour), pummelo, satsuma mandarin.

#### **POME FRUITS**

Apple, crabapple, loquat, mayhaw, pear, Oriental pear, quince.

#### **STONE FRUITS**

Apricot, cherries (sweet and sour), nectarine, peach, plum, prune, Chickasaw plum, Damson plum, Japanese plum, plumcot.

#### **SMALL FRUITS AND BERRIES**

Bingleberries, blackberries, blueberries, cranberries, currants, dewberries, elderberries, gooseberries, grapes, huckleberries, loganberries, lowberries, ollalieberries, black raspberries, red raspberries, strawberries, youngberries.

#### **TREE NUTS**

Almond, beech nut, Brazil nut, butternut, cashew, chestnut, chinquaoín, filbert (hazelnut), hickory nut, macadamia nut (bush nut), pecan, pistachio, walnut (black and English or Persian).

#### **ORIENTAL VEGETABLES**

Japanese artichoke, Chinese broccoli (gailan), Chinese cabbage (bok choy), Chinese mustard cabbage (gai choy), dasheen, ginger, ginseng, Chinese longbeans, mung beans, citron melon, balsam pear (bitter melon), Japanese radish (daikon), Chinese spinach, Chinese wax gourd.

#### **SUBTROPICAL FRUITS**

Avocado, banana, carob, Barbados cherry, cherimoya, date, durian (jackfruit), feijoa, fig, guava, kiwifruit, lychee, mango, papaya, passionfruit, pawpaw, persimmon, pineapple, pomegranate.

## CEREAL GRAINS

Barley, buckwheat, corn (sweet, pop and field), millet, proso, oats, pearl, rice, rye, sorghum (milo), teosinte, triticale, wheat, wild rice.

## FORAGE, FODDER AND STRAW OF CEREAL GRAINS

Barley, buckwheat, corn (sweet, pop and field), millet, proso, oats, pearl, rice, rye, sorghum (milo), teosinte, triticale, wheat, wild rice.

## GRASSES FOR SEED, FORAGE, FODDER AND HAY

Includes any grass (Graminaceae), green or cured, except sugar cane and those listed under "cereal grains", that will be used to graze or feed livestock, such as pasture grasses, range grasses, grasses grown for hay or silage, Bermuda grass, bluegrass, bromegrass, fescue, annual ryegrass, festulolium, hybrid ryegrass, Italian ryegrass, meadow fescue, orchard grass, Sudangrass, sorghum-Sudan, tall fescue, timothy, wheat hay, turfgrasses, bentgrass, Kentucky bluegrass, specialty grasses.

## NON-GRASS ANIMAL FEEDS

Alfalfa, velvet bean, clover, kudzu, lespedeza, lupin, Sainfoin, trefoil, crown vetch, milk vetch.

## HERBS AND SPICES

Allspice, angelica, anise (anise seed), annatto, balm, basil, borage, burnet, chamomile, caper buds, caraway, black caraway, cardamom, cassia bark, cassia buds, catnip, celery seed, chervil, chive, Chinese chive, clary, cove bud, coriander (cilantro or Chinese parsley), coriander (cilantro) seed, costmary, cilantro, cumin, curry leaf, dill (weed, seed), fennel (Italian and sweet), fenugreek, grains of paradise, horehound, hyssop, juniper berry, lavender, lemongrass, lovage (leaf and seed), lace, marigold, marjoram (sweet, wild), mustard (seed), nasturtium, nutmeg, oregano, mint, paprika, parsley, pennyroyal, pepper (white or black), poppyseed, rosemary, rue, saffron, sage savory (including summer or winter), sweet bay (bay leaf), tansy, tarragon, thyme, vanilla, watercress, wintergreen, woodruff, wormwood.

## OILSEED CROPS

Canola, crambe, rapeseed, flax safflower, sesame, soybean, sunflower.

## ADDITIONAL CROPS

Artichoke, asparagus, avocado, coffee, cotton, hemp, hops, jojoba, mushrooms, olives, okra, peanuts, safflower, sesame, sugar cane, sunflower, tea, tobacco.

Best results are expected from application when the meteorological conditions favor an inversion of air temperatures in the area treated, and when the wind is not excessive. Apply only when wind speed is greater than or equal to 1 mph.

Back pack applications may require a greater rate of dilution than the dilution used for vehicle or aircraft mounted sprayers, in order to achieve the desired rate of application of active ingredients per acre.

The maximum application rate for wide area mosquito adulticide applications is 0.0025 lbs pyrethrin/acre, or 0.025 lbs piperonyl butoxide/acre, whichever is lower. When targeting *Aedes Taeirorhynchus* and other difficult species, applications may be made up to 0.008 lbs pyrethrin/acre/day, or 0.08 lbs piperonyl butoxide/acre/day, whichever is lower.

Do not apply more than 0.2 lbs pyrethrin/acre/year, or 2 lbs piperonyl butoxide/acre/year, whichever is lower, in any treated area. More frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal, or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

**Ground-based applications for wide-area mosquito abatement application:** Spray equipment must be adjusted so that the volume median diameter is less than 30 microns ( $D_{v,0.5} < 30 \mu\text{m}$ ) and that 90% of the spray is contained in droplets smaller than 50 microns ( $D_{v,0.9} < 50 \mu\text{m}$ ). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

**Aerial applications for wide-area mosquito abatement application:** Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns ( $D_{v,0.5} < 60 \mu\text{m}$ ) and that 90% of the spray is contained in droplets smaller than 80 microns ( $D_{v,0.9} < 80 \mu\text{m}$ ). The effects of flight speed, and for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

## Release Height for Aerial Application:

**Fixed Wing-** Apply using a nozzle height of no less than 100 feet above the ground or canopy.

**Rotary Wing:** Apply using a nozzle height of no less than 75 feet from the ground or canopy.

To kill MOSQUITO LARVAE, dilute at the rate of 9 fluid ounces per 50 gallons of oil and apply at the rate of 20 to 25 gallons per acre. Apply as a coarse wetting spray to the border or on shallow water of wetlands, swamps and marshes where mosquito larvae are known to breed.

**TEMPORARY REDUCTION OF ANNOYANCE AND POTENTIAL VECTORS, UNDILUTED,** from FLIES, MOSQUITOES and SMALL FLYING MOTHS OUTDOORS. the aforementioned application for outdoor ground application will afford temporary reduction of annoyance from these pests in public gathering places (drive-in restaurants, drive-in theaters, golf courses, municipalities, sewers, parks, playgrounds and recreational areas). Direct application into tall grass, shrubbery and around lawns where these pests may hover or rest. Apply while air is still. Avoid wetting foliage. Application should be made prior to attendance.

**FOR USE IN THERMAL FOGGING EQUIPMENT:** following the above directions and precautions, prepare a solution containing 0.1% pyrethrins and 0.5% piperonyl butoxide by mixing 2½ fluid ounces of this product with 125½ fluid ounces of fuel oil, refined soybean oil or light mineral oil, to equal one gallon of spray. Apply at a rate of not more than 0.0025 pounds of pyrethrins and 0.0125 pounds of piperonyl butoxide per acre. For control of nuisance species in Texas, it may be necessary to use a dose of up to 0.008 pounds of pyrethrins and 0.04 pounds of piperonyl butoxide per acre.

In additional outdoor areas (corrals, feed lots, swine lots and zoos), fill area with mist directing application into tall grass, shrubbery and around lawns where these pests may hover or rest. Apply while air is still. Avoid wetting foliage. In zoos, avoid exposure of reptiles to the product.

**FOR USE ON ANIMALS:** to protect beef and dairy cattle, and horses from HORN FLIES, MOSQUITOES, AND GNATS, dilute 1 part of concentrate plus 49 parts oil (refined kerosene) and mix well. Apply a light mist sufficient to wet the tips of the hair. To control STABLE FLIES, HORSE FLIES and DEER FLIES on beef and dairy cattle and horses: apply 2 fluid ounces per adult animal, sufficient to wet the hair but not to soak the hide.

To control the motile stages of BLOOD SUCKING LICE on beef and dairy cattle, apply the spray to thoroughly wet the hair. Use 2 fluid ounces or less per animal and repeat every 2 to 3 weeks as required.

#### **OUTDOOR METERED RELEASE DEVICES:**

Directions for use in outdoor metered release devices:

If the device works on an automatic timer, set the timing for application when people, pets, and/or food are unlikely to be present. If the device works when a person operates a remote activation device, then application of this pesticide when people, pets and/or food are present is prohibited. Direct nozzle to spray towards the target area and away from areas where people are typically present. The pesticide container must be locked. Do not install within 3 feet of air vents, air conditioner units, or windows. Carefully follow directions for the dispenser unit when installing the dispenser and replacing cans or conducting maintenance.

#### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage and disposal.

**STORAGE:** If container is damaged: stop any leaks by repositioning the container or by patching or otherwise repairing the leaks. Take care to avoid contact with pesticide and wear protective gear. On cleanup of spilled liquids, wear protective equipment as required to prevent contact with the product or its vapors. Cover the spilled areas with generous amounts of absorbent material, such as clay, diatomaceous earth, sand, or sawdust. Sweep the contaminated absorbent onto a shovel and put the sweepings into a salvage drum. Dispose of wastes as below. Place any leaking container into a similar drum or glass container. Do not store, use, or pour, or spill near heat or open flame.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL: {Containers with NO dilutable use instructions}** Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

**{Containers that include dilutable use instructions}** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. **{Containers 5 gallons or less}** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with solvent used to dilute product and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. **{Containers greater than 5 gallons}** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with solvent used to dilute the product. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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